

--ABSTRACT OF THE DISCLOSURE

a, A surface optical apparatus that includes a surface optical device with p-side and n-side electrodes, such as a surface emitting laser, a first substrate for supporting the surface optical device directly or through an elastic supporter formed of one or plural layers, and a first electrode wiring of at least a wire formed on the first substrate and electrically connected to one of the electrodes. A current is injected into or a voltage is applied across the surface optical device through the first electrode wiring and the p-side and n-side electrodes. A photodetector for detecting light from the surface optical device may also be arranged in the vicinity of the optical device.--

IN THE CLAIMS:

Please cancel claims 1-80 without prejudice or disclaimer of subject matter.

Kindly add new claims 81-99 as follows.

9 sub B1
--81. A surface optical apparatus comprising:
a surface light emitting device; and
a substrate for supporting the surface light emitting device;
wherein the surface light emitting device includes a protrusion with
an opening.

82. A surface optical apparatus according to claim 81, wherein
evanescent light leaks from the opening.